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**ANNUAL RESEARCH ACTIVITIES, 2000**

by

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**March 2001**

## **ANNUAL RESEARCH ACTIVITIES, 2000**

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## **ANNUAL RESEARCH ACTIVITIES, 2000**

**Keith R. Criddle**

### **ABSTRACT**

The research activities described in this document were supported by the Utah State University Economics Research Institute (ERI) in 2000. The ERI was founded in 1965 to support cooperative research to assist in the solution of local, regional, and national economic problems. Base support for the ERI has been provided by the Utah Agricultural Experiment Station. Project funding has been secured from state, federal, and international agencies and organizations. Boldface type is used to identify Utah State University Economics Department faculty and staff.



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- ERI 00-20 **K Huang**, Z Liu, and L Phaneuf. Staggered contracts, intermediate goods and the dynamic effects of monetary shocks on output, inflation and real wages. 28 p.
- ERI 00-21 **K Huang** and Z Liu. Implementing Arrow-Debreu equilibria by trading infinitely lived securities. Utah State University Economic Research Institute 31 p.
- ERI 00-22 **K Huang**. On infinite-horizon minimum-cost hedging under cone constraints. Utah State University Economic Research Institute 21 p.
- ERI 00-23 **KR Criddle** and S Macinko. A requiem for the IFQ in U.S. Fisheries. Utah State University Economic Research Institute 16 p.
- ERI 00-24 **AA Batabyal**, H Beladi, and DM Lee. Dynamic environmental policy in developing countries in the presence of a balance of trade deficit and a tariff. Utah State University Economic Research Institute 37 p.
- ERI 00-25 M Herrmann, ST Lee, **KR Criddle**, and C Hamel. Results of a survey of participants in the Lower and Central Cook Inlet halibut and salmon sport fishery. Utah State University Economic Research Institute 27 p.
- ERI 00-26 **AA Batabyal**. Habitat conversion, information acquisition, and the conservation of biodiversity. Utah State University Economic Research Institute 25 p.
- ERI 00-27 **KS Lyon** and DM Lee. Do optimal non-renewable resource tariffs suffer from dynamic inconsistency? Utah State University Economic Research Institute, 30 p.
- ERI 00-28 **K Huang** and Z Liu. Staggered price-setting, staggered wage-setting, and business cycle persistence. Utah State University Economic Research Institute, 36 p.
- ERI 00-29 DM Lee and **AA Batabyal**. Dynamic environmental policy in developing countries with a dual economy. Utah State University Economic Research Institute, 30 p.
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- ERI 00-31 **L Hunnicutt**. Market power in the beef packing industry: Is it time for a new approach? Utah State University Economic Research Institute, 18 p.
- ERI 00-32 **L Hunnicutt**. One boss or many? Decision making and coordination in the multi-plant firm. Utah State University Economic Research Institute, 24 p.
- ERI 00-33 EL Echeverri-Carroll and **L Hunnicutt**. Speed of innovation in high technology firms: Geographic and organizational strategies. Utah State University Economic Research Institute, 40 p.
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**Glover, TF.** Losing markets under rules of origin in free trade agreements. Tilburg Conference on Trade Agreements, GATT, and WTO Directions, Tilburg University, Netherlands, April 2000.

**Glover, TF.** Merger and midstream-downstream organization of firms. Conference on Empirical Modeling of Multi-Stage Games and Product Differentiation, Oakland, CA, June 2000.

**Glover, TF.** Nonparametric estimation of treatment effects. Treatment Effects and Meta-Analysis Group Session, Joint Statistical Meetings, Indianapolis, IN, August 2000.

**Glover, TF.** Surveying to determine marginal willingness to trade-off budget allocations. Idaho National Engineering and Environmental Laboratory, US Department of Energy Water Quality Management Review, August 2000.

**Godfrey, EB** and DL Baker. A shift-share analysis of selected livestock production in the United States. Annual Meetings of the Society for Range Management, Boise, ID, February 2000.

**Godfrey, EB.** Charging fair market value for using federal lands: Some implications of an ignored policy. Annual Meetings of WCC-55, Rapid City, SD, October 2000.

**Godfrey, EB.** Vacant grazing allotments in the Western United States. Annual Meetings of the Society for Range Management, Boise, ID, February 2000.

Hagenstad, M and **DL Snyder.** Regional economic impacts of wilderness designation in six western states. Western Regional Science Association, Kauai, HI, February 2000.

Hamel, C, M Herrmann, ST Lee, and **KR Criddle.** An economic discussion of the marine sport fisheries in Lower Cook Inlet. International Institute for Fisheries Economics and Trade, Corvallis, OR, July 2000.

Hamel, C, M Herrmann, ST Lee, **KR Criddle,** and HT Geier. Linking sportfishing trip attributes, participation decisions, and regional economic impacts in Lower and Central Cook Inlet, Alaska. American Fisheries Society, Alaska Chapter, Fairbanks, AK, November 2000.

Henderson, MM, **KR Criddle,** and ST Lee. The economic value of Alaska's Copper River personal-use and subsistence fisheries. Western Regional Science Association, Kauai, HI, February 2000.

Herrmann, M, **KR Criddle,** ST Lee, and C Hamel. An economic evaluation of the demand for marine sport fisheries in Lower and Central Cook Inlet, Alaska. American Fisheries Society, Alaska Chapter, Fairbanks, AK, November 2000.

Herrmann, M, ST Lee, **KR Criddle,** and C Hamel. Results of a survey of participants in the Lower and Central Cook Inlet halibut and salmon sport fishery. American Fisheries Society, Alaska Chapter, Fairbanks, AK, November 2000.

**Huang, K.** Chain of production as a monetary propagation mechanism. American Economic Association and North American Econometric Society, Boston, MA, January 2000.

**Huang, K.** Implementing Arrow-Debreu equilibrium by trading infinitely-lived securities. 8<sup>th</sup> World Congress of the Econometric Society, Seattle, WA, August 2000.

**Huang, K.** Vertical international trade as a monetary transmission mechanism in an open economy. 8<sup>th</sup> World Congress of the Econometric Society, Seattle, WA, August 2000.

**Huang, K.** Vertical international trade as a monetary transmission mechanism in an open economy. Midwest Macroeconomics Conference, Iowa City, IA, April 2000.

**Hunnicut, L.** Measuring market power when inputs are capital goods. Western Economic Association International, Vancouver, BC, July 2000.

Ratliff, R and **LD Israelsen.** Motivation, costs, and management strategies for six basic types of relationships. QUIS7. 7<sup>th</sup> International Research Symposium on Service Quality, Karlstad, Sweden, June 2000.

**Israelsen, LD** and R Ratliff. Relationships economics and management: Products for the future. International Meeting of the American Institute of Certified Public Accountants, San Diego, CA, February 2000.

**Israelsen, LD** and RD Israelsen. Was discrimination against non-English speaking immigrants a cause of income inequality in early Utah? Annual Meeting of the Utah Academy of Sciences, Arts, and Letters, Cedar City, UT, April 2000. (Best Paper Award)

**Israelsen, LD,** KE Israelsen, and RD Israelsen. The determinants of income distribution in the old West. Western Economic Association International Conference, Vancouver, BC, July 2000.

**Keith, JE** and D McKinney. Options analysis of the Toktogul reservoir: Implications for regional resource allocation. Western Regional Science Association, Kauai, HI, February 2000.

Lee, ST, M Herrmann, **KR Criddle,** and C Hamel. Modeling the economic effect of fishery attributes on participation rates: The Kenai Peninsula marine sport fishery. American Fisheries Society, Alaska Chapter, Fairbanks, AK, November 2000.

Lee, ST, M Herrmann, **KR Criddle,** and C Hamel. The effect of fishery attributes on participation rates: The Kenai Peninsula marine sport fishery. Western Agricultural Economics Association, Vancouver, BC, June 2000.

**Lewis, WC** and **TJ Bowles.** The individual income tax in eight western states: Variation across states and over time. Western Regional Science Association, Poipu, HI, February 2000.

Muwanga, J and **DL Snyder.** Intertemporal price adjustments and arbitrage opportunities in regional hog markets. Western Agricultural Economics Association, Vancouver, BC, July 2000.

Thor, EP, J Turner, **D Bailey,** and T Moruzzi. Agribusiness and food management students using trade education tools for the new millennium: Linking EU-US university experiences through the phoenix groups: Attacking global barriers initiative. International Agribusiness and Food Management World Congress, Chicago, IL, June 2000.

Thor, EP, J Turner, **D Bailey,** O Panteleeva, and T Moruzzi. Using food management and agribusiness education to understand the barriers to trade between the major trading blocks: International food and agribusiness master's experience. International Association of Agricultural Economists, Berlin, Germany, August 2000.

Weninger, QR and **TF Glover.** The margin of safety in water quality management. Idaho National Engineering and Environmental Laboratory, US Department of Energy Water Quality Management Review, August 2000.

### ***Invited Seminars***

**Bentley, MT.** Industrial adjustment and economic renewal. *National Powist Association*, Wisla, Poland, June 2000.

**Bentley, MT.** The US Department of Labor model for industrial adjustment. *National Employment Bureau*, Skopje, Macedonia, April 2000.

**Biswas, B.** Globalization and Indian economy. Radical Humanist Association of West Bengal, Calcutta, India, December 2000.

**Biswas, B.** Freedom and development. Jadavpur University, Calcutta, India, December 2000.

**Criddle, KR.** Climate fluctuation, population dynamics, economics, and the Eastern Bering Sea fishery for walleye pollock. Distinguished Marine Scientist Colloquium 1999/2000, Hatfield Marine Science Center, Newport, OR, February 2000.

**Criddle, KR.** Effects of climate change on the Eastern Bering Sea fishery for walleye pollock. Pacific Scientific Research Fisheries Center (TINRO), Vladivostok, Russia, December 2000.

**Criddle, KR.** Legal, social, and economic aspects of enclosing the US EEZ fisheries. Pacific Scientific Research Fisheries Center (TINRO), Vladivostok, Russia, December 2000.

**Dickinson, DL.** What is fair? Experimental evidence. University of Arizona: Experimental Economics Seminar Series, 2000.

### ***Department Seminars***

DM Lee, Doctoral candidate, Utah State University. A dynamic analysis of the global timber market and carbon flux of forest under global warming: An integrated modeling approach. November 17, 2000.

RP McAfee, Murray S. Johnson Chair, University of Texas—Austin. A theory of bilateral oligopoly, with applications to vertical mergers. November 10, 2000.

B Palmer, Southern Methodist University. Issue fluidity and its costs: Time, information and issue change on the U.S. Supreme Court. November 3, 2000.

R Felthoven, University of California—Davis. Measuring fishing capacity: An application to North Pacific groundfish fisheries. October 6, 2000.

K Baerenklau, University of Wisconsin—Madison. A cost-effective pooling mechanism for nonprofit source pollution control. September 29, 2000.

S Misra, Utah State University. Returns to public agricultural research expenditure under uncertainty. September 27, 2000.

C Hilmer, Brigham Young University. A Hotelling-Faustmann explanation of the structure of Christmas tree prices. September 27, 2000.

J Gilbert, Washington State University. Rural-urban migration, labor mobility and agricultural trade liberalization in China. September 22, 2000.

D Miljkovic, Southwest Missouri State University. Agricultural trade in North America: Trade creation, regionalism, and regionalization. September 18, 2000.

A Yates, Tulane University. Decentralization in pollution permit markets. September 15, 2000.

### ***Other Scholarly Presentations***

**Aadland, DM.** Default risk and moral hazard in the thrift industry. USU Economics Department No Free Lunch Club—Brown Bag seminar. September 6, 2000.

**Aadland, DM.** Goodness-of-fit measures in limited-dependent variable models. USU Economics Department No Free Lunch Club—Brown Bag seminar. October 4, 2000.

**Bailey, D.** Cattle and beef outlook. Box Elder County, March 2000.

**Fawson, C** and R Herzberg. Health care in rural Utah: Diagnosis and treatment. The Sutherland Institute, Governing Board Presentation, August 2000.

**Huang, K.** Vertical international trade as a monetary transmission mechanism in an open economy. University of California—Santa Barbara, Santa Barbara, CA, October 2000.

**Keith, JE.** Policy issues in water demand management: Concepts in demand management. FAO Training Course on Policy Issues in Water Demand Management and their Implementation, Beirut, Lebanon, May 2000.

Thor, EP, **D Bailey** and J Bednar. Panelists: International business education and strategic issues facing leaders from academe, business, and government in the 21<sup>st</sup> century. Partnerships for Education of Future Global Business Leaders Conference, US Department of Education, Washington, DC, September 2000.

A Caplan, Weber State University. Compendium of research on the provision of public goods: federalism, decentralized leadership, and an application. September 11, 2000.

P Jakus, University of Tennessee. Perceived hazard and product choice: an application to recreational site choice. September 1, 2000.

Q Xu, Doctoral candidate, Utah State University. Three essays in environmental economics, April 21, 2000.

K Matthews, Chief Economist, First Security Bank. The year 2000 and beyond. April 6, 2000.

N Sohrabji, Boston College. Real exchange rate targeting: An empirical analysis using panel data. March 10, 2000.

**K Huang,** Utah State University. Vertical international trade as a monetary transmission mechanism in an open economy. March 3, 2000.

V Kolpin, University Oregon. Cost and resource allocation: A tale of two rules. February 25, 2000.

M Ryan, Indiana University. The hazards of Japanese foreign direct investment in Europe: Evidence from firm-level panel data. February 11, 2000.

C Co, University of Central Florida. Do patent rights regimes matter? February 10, 2000.

A Ghosh, University of Minnesota. Trade policy in the presence of technology licensing. February 1, 2000.

A Caplan, Weber State. Pure public goods and income redistribution in a federation. January 21, 2000.

**DM Aadland,** Utah State University. The economics of cattle supply. January 14, 2000.

**Bailey, D.** Cattle and beef outlook. Utah Agricultural Bankers, Salt Lake City, Utah, February 2000.

**Batabyal, AA** and H Beladi. A dynamic analysis of protection and environmental policy in a small trading developing country. Economics Department, State University of New York at Buffalo, November 2000.

**Batabyal, AA** and H Beladi. Time restrictions in natural resource management: A dynamic and stochastic analysis. Industrial Mathematics Program, Utah State University, January 2000.

**Batabyal, AA** and H Beladi. Time restrictions in natural resource management: A dynamic and stochastic analysis. Fisheries and Wildlife Department, Utah State University, February 2000.

**Batabyal, AA** and H Beladi. Time restrictions in natural resource management: A dynamic and stochastic analysis. Humanities and Social Sciences Department, New Jersey Institute of Technology, February 2000.

**Batabyal, AA** and H Beladi. Time restrictions in natural resource management: A dynamic and stochastic analysis. Southern Extension Research Activity Information Exchange Group Annual Meeting, Gulf Shores, Alabama, March 2000.

**Batabyal, AA, B Biswas, and EB Godfrey.** On the choice between the stocking rate and time in range management. USU Economics Department No Free Lunch Club—Brown Bag seminar, March 31, 2000.

**Batabyal, AA, B. Biswas, and EB Godfrey.** On the choice between the stocking rate and time in range management. Rangeland Resources Department, Utah State University, February 2000.

**Batabyal, AA, B. Biswas and EB Godfrey.** On the choice between the stocking rate and time in range management. Applied Economics and Management Department, Cornell University, October 2000.

**Batabyal, AA.** Prices versus quantities in environmental economics. Economics Department, Rochester Institute of Technology, March 2000.

**Bowles, TJ.** Tax considerations in valuing nontaxable entities. USU Economics Department No Free Lunch Club—Brown Bag seminar. November 8, 2000.

**Bowles, TJ.** Time series properties of medical care net discount rate. USU Economics Department No Free Lunch Club—Brown Bag seminar. September 27, 2000.

**Criddle, KR.** A requiem for the IFQ in US fisheries? USU Economics Department No Free Lunch Club—Brown Bag seminar. September 20, 2000.

**Dickinson, DL.** Alternative arbitration mechanisms and experiments. Management and Human Resource Dept. Brown Bag Lunch seminar, December 2000

**Dickinson, DL.** Alternative arbitration mechanisms and experiments. USU Economics Department No Free Lunch Club—Brown Bag seminar. November 1, 2000.

**Fawson, C** and R Bosworth. Fair play: What your child can teach you about economics, values, and the meaning of the life. USU Economics Department No Free Lunch Club—Brown Bag seminar. November 15, 2000.

**Fawson, C** and R Bosworth. The writings of Marshal Jevons (A deadly indifference, murder at the margin, and fatal equilibrium). USU Economics Department No Free Lunch Club—Brown Bag seminar. October 18, 2000.

**Fawson, C.** Steven Landsberg's Fair Play, USU Economics Department No Free Lunch Club—Brown Bag seminar

**Godfrey, EB.** Charging fair market value for using public lands: Who is eating a free lunch? USU Economics Department No Free Lunch Club—Brown Bag seminar. November 29, 2000.

**Godfrey, EB.** Dairy outlook. Box Elder County, March 2000.

**Godfrey, EB.** Dairy outlook. Utah Agricultural Bankers, Salt Lake City, Utah, February 2000.

**Hunnicut, L.** Measuring market power without using price data. USU Economics Department No Free Lunch Club—Brown Bag seminar. September 13, 2000.

**Snyder, DL** Feed grains and forage outlook. Box Elder County, March 2000

**Snyder, DL.** Feed grains and forage outlook. Utah Agricultural Bankers, Salt Lake City, Utah, February 2000.

**Snyder, DL.** Price distributions—implications for competition? USU Economics Department No Free Lunch Club—Brown Bag seminar. October 11, 2000.

**Ward, RA.** Is agriculture in Utah as bleak as it sounds? Box Elder County, March 2000.

**Ward, RA.** Is agriculture in Utah as bleak as it sounds? Utah Agricultural Bankers, Salt Lake City, Utah, February 2000.

**Ward, RA.** USU Economics Department No Free Lunch Club—Brown Bag seminar. October 25, 2000.

### ***Utah Agricultural Experiment Station Projects***

**Aadland, DM** and **D Bailey.** Examining the dynamics of cattle supply and demand. Utah Agricultural Experiment Station project UTA-016. 7/1/99-6/30/04.

**Bailey, D.** Enhancing the global competitiveness of US red meat. Utah Agriculture Experiment Station project UTA-085 (W-177). 10/1/92-9/30/02.

**Bailey, D** and **DL Snyder.** Identifying markets and market niches for Utah agricultural products. Utah Agriculture Experiment Station project UTA-023. 7/1/96-6/30/01.

**Batabyal, AA.** Economics and management of risk in agriculture and natural resources. SERA-IEG-31. 7/1/99-9/30/04.

**Biswas, B.** Effects of the North American Free Trade Agreement (NAFTA) on US and Utah agriculture—an assessment. Utah Agricultural Experiment Station Project UTA-091. 7/1/94-6/30/05.

**Criddle, KR.** Economics Research Institute. Utah Agricultural Experiment Station project UTA-686. 7/1/92-6/30/02

**Criddle, KR.** Property rights-based management of natural resources: Impacts on industry. Utah Agricultural Experiment Station project UTA-025. 1/1/00-6/30/01.

**Fawson, C.** Rural economic development: Alternatives in the new competitive environment. Utah Agriculture Experiment Station project UTA-074 (NE-162). 10/1/92-9/30/02.

**Fullerton, HH.** Economics of water conservation for municipal and residential irrigation. Utah Agriculture Experiment Station project UTA-026. 7/1/95-6/30/00.

**Glover, TF.** Strategic decision processes, competition and alternative marketing strategies. Utah Agriculture Experiment Station project UTA-009. 7/1/98-6/30/03.

**Godfrey, EB.** Rangelands resource economics and policy. WCC-055. 10/1/92-9/30/01.

**Godfrey, EB.** Rural communities and public lands in the West: Impacts and alternatives. Utah Agriculture Experiment Station project UTA-007 (W-192). 10/1/96-9/30/01.



**Godfrey, EB.** The economics of intensive grazing on private lands in Utah. Utah Agriculture Experiment Station project UTA-008. 7/1/97-6/30/02.

**Hunnicut, L.** Communication networks and decision making structures in agricultural organizations. Utah Agriculture Experiment Station project UTA-011. 9/15/98-6/30/03.

**Keith, JE.** New perspectives on the study of jointly determined ecological-economic systems in the American West. Utah Agriculture Experiment Station UTA-015. 7/1/00-6/30/05.

**Keith, JE.** Benefits and costs of resource policies affecting public and private land. Utah Agriculture Experiment Station project UTA-052 (W-133). 10/1/92-9/30/02.

**Keith, JE.** Atemporal and intertemporal use and management of natural resources in the Intermountain West. Utah Agriculture Experiment Station project UTA-024. 7/1/96-6/30/05.

**Lewis, WC.** State-Federal income taxes: Stability and effect on economic growth and farm saving. Utah Agriculture Experiment Station project UTA-012. 7/1/99-6/30/04.

**Lyon, KS.** Global warming, forest carbon flux, and timber harvests. Utah Agriculture Experiment Station project UTA-010. 7/1/98-6/30/03.

**Snyder, DL.** Environmental and economic impacts of nutrient management on dairy forage systems. Utah Agriculture Experiment Station project UTA-013 (NE-132). 10/1/99-9/30/02.

### ***Other Sponsored Research Projects and Programs***

**Aadland, DM.** Willingness to pay for curbside recycling. Utah State University New Faculty Research Grant. 1999-2000.

**Bailey, D and EB Godfrey.** A preliminary assessment of the feasibility of a soybean crushing facility in Utah. Utah Agribusiness Council 2000.

**Bailey, D, VT Mendenhall, and DL Dickinson.** Market opportunities and costs associated with food traceability. Utah Department of Agriculture and Food. 2000.

**Bailey, D. A.** US-EU multilateral exchange and training program toward BS and MS degrees in agribusiness and agricultural economics. Funded as a sub-grant with Arizona State University from the US Department of Education. 9/10/97-8/31/01.

**Barres, H, DS Bowles, LR Anderson, and TF Glover.** Community GIS-based risk management. Logan City, Federal Emergency Management, Association of Governments Management Grants Program. 2001.

**Bowles, DS, LR Anderson, and TF Glover.** Portfolio risk assessment of US Army Corps of Engineers dams. Institute for Water Resources and Office of Headquarters, US Army Corps of Engineers. 2000-2001.

**Bowles, DS, LR Anderson, and TF Glover.** Risk assessment and projections of populations at risk. Institute for Water Resources. US Army Corps of Engineers. 2000-2001.

**Bowles, T.** Current agricultural conditions and trends. Zions Bank, Agricultural Finance. 2000.

**Criddle, KR, M Herrmann, ST Lee, JA Greenberg, and CE Lewis.** An economic assessment of the marine sport fisheries in lower Cook Inlet. Coastal Marine Institute, Minerals Management Service, 8/1/97-6/30/00.

**Criddle, KR.** Pool Size versus Precision of Prohibited Species Bycatch Estimates for Pooled and Individual Bycatch Quotas. Alaska Sea Grant College Program, US DOC National Oceanic and Atmospheric Administration, 2/1/00-1/31/02.

**Dickinson, DL.** Work on arbitration experiments and dispute resolution. Utah State University New Faculty Research Grant. 2000.

**Fawson, C, LD Israelsen, and TF Glover.** Comprehensive economic development plan. Northwestern Band of the Shoshoni Nation. 1998-2000.

**Fawson, C.** The public-private interface of rural healthcare delivery in Utah. Sutherland Institute. 1999-2000.

**Godfrey, EB.** Agricultural budgets. Utah Department of Agriculture and Food. 1988-2001.

**Godfrey, EB.** Farmland assessment in Utah. Utah Tax Commission. 1991-2001.

**Godfrey, EB.** Risk Management Education in Utah. USDA, RMA. 7/00-9/1/00.

**Hunnicut, L, Q Weninger, and D Bailey.** A new direction for assessing market power in the beef packing industry. USDA, GIPSA. 1/1/00-6/30/01.

**Hunnicut, L.** The effect of membership characteristics on cooperative objectives. USU New Faculty Research Grant. 7/1/00-6/30/01.

**McCoy, NH, D Blahna, and JE Keith.** Economic Assessment of Snowmobiling in Utah. 3/1999-1/2001.

**Snyder, DL.** Economic impact of rural health facilities. Utah Department of Health. 11/00-02/01.

**Snyder, DL.** Financial feasibility of conference facility. Carbon County. 2000.

**Snyder, DL.** Identification and development of plants. USDA, ARS. 1999-2000.

**Snyder, DL.** Pasture and forage research. USDA-CREES and State of Utah. 1996-2000.

**Stevens, DK, D Tarboton, TF Glover, and D Ames.** Decision support system for TMDL development and monitoring. US Department of Energy-Idaho National Engineering and Environmental Laboratory URC Sponsored Research Program. 2000-2001.

**Stevens, DK, D Tarboton, TF Glover, and D Ames.** Development of integrated watershed information management for long-term facilities stewardship at INEEL. US Department of Energy-Idaho National Engineering and Environmental Laboratory LDRD research program. 2000-2001.

**Ward, RA and EB Godfrey.** Examining the economics of different turkey production decisions in Sanpete County, Utah. Moroni Feed Company. 1/00-10/01.

### ***Doctoral Student Research Supported by ERI***

**Abdulle, Abdinasir.** Effect of land in commons on the decision making behavior of the pastoralists in the central rangelands of Somalia. Directed by **KS Lyon** with **HH Fullerton, TF Glover, JE Keith, DL Snyder, R Bennett.** PhD—Economics, 2001.

**Bosworth, Ryan.** Dissertation topic: Directed by **TJ Bowles** with **C Fawson, WC Lewis.** Enrolled in PhD—Economics.

Broadhead, Catherine. Contingent valuation estimation of WTP and WTA on the River Garonne. Directed by **JE Keith** with **B Biswas**, **C Fawson**, **DL Snyder**, **JC Schmidt**. PhD—Economics, 2001.

Caliendo, Frank. Dissertation topic undeclared. Directed by **WC Lewis** with **C Fawson**, **T Bowles**. Enrolled in PhD—Economics.

Campbell, Ed. Federal funding success factors in biology and mathematics. Directed by **C Lutz** with **WC Lewis**, **K Checketts**, **J Vinsonhaler**, **D Paper**. PhD—BISE, 2000.

Cox, Taylor. Wheat control on public lands. Directed by **N.H. McCoy** with **EB Godfrey**. Candidate for PhD—Rangeland Resources.

Eun, Woong. Dissertation topic undeclared. Directed by **HH Fullerton** with **B Biswas**, **C Fawson**, **JE Keith**, **P Swensen**. Candidate for PhD—Economics.

Fang, Qiu. Dissertation topic undeclared. Directed by **C Fawson** and **B Biswas** with **DM Aadland**, **KS Lyon**, **D Dahl**. Enrolled in PhD—Economics.

Gombin, Pete. Public/private land exchanges to encourage environmentally sensitive development in the California Mojave Desert. Directed by **R Lilieholm** with **DL Snyder**, **D Blahna**, **T Edwards**, **M Khuns**, and **R Toth**. Candidate for PhD—Forest Resources.

Kidd, Jeremy. Dissertation topic: Environmental economics. Directed by **C Fawson** with **EB Godfrey**, **DM Aadland**. Enrolled in PhD—Economics.

Lee, Dug Man. A dynamic analysis of the global timber market and carbon flux of forest under global warming: An integrated modeling approach. Directed by **KS Lyon** with **B Biswas**, **KR Criddle**, **C Fawson**, **HH Fullerton**. PhD—Economics, 2001.

Lee, Ji Youn. Dissertation topic undeclared. Directed by **M. Toney** with **B Biswas**, **B Parlin**, **EH Berry**, **R Geertsens**. Enrolled in PhD—Sociology.

Lee, Joen Hoek. Uncertainty analysis of consequence and engineering assessments of dam structures and failures. Directed by **D. Bowles** with **TF Glover**, **L. Anderson**, **J. Caliendo**, and **D. Coster**. Candidate for PhD—Civil and Electrical Engineering.

Leelavanichkul, Sumana. Dissertation topic undeclared. Directed by **C Fawson** with **DM Aadland**, **B. Biswas**, **LD Israelsen**, **JE Keith**. Enrolled in PhD—Economics.

### ***Masters Student Research Supported by ERI***

Baker, Dale. A shift-share analysis of livestock inventories in the United States. Directed by **EB Godfrey** with **C Fawson**, **DL Snyder**. MCEd, 2000.

Bunyapratreprat, Sittachi. Plan C. Directed by **D Bailey**. Enrolled in MS—Economics.

Chansanroj, Wuttichai. Thesis topic undeclared. Directed by **C Fawson**. Enrolled in MA—Economics.

Crook, Michele. Thesis topic undeclared. Directed by **C Fawson** with **D Bailey**, **D Dickinson**. Enrolled in MS—Economics.

Duvanova, Dinissa. Democratic development in Central Asia: A political economy explanation. Directed by **P. McNamara** with **LD Israelsen**, **R. Simmons**, **A Kawar**, and **V. Wood**. Candidate for MS—Political Science.

Feng, Shelley. Plan C. Directed by **B Biswas** with **C Fawson**, **JE Keith**. MS—Economics, 2001.

Li, Yaqiang. Dissertation topic undeclared. Directed by **K Huang** with **DM Aadland**, **B Biswas**, **C Fawson**. Enrolled in PhD—Economics.

Lowe, Laura. Dissertation topic undeclared. Directed by **C Fawson** with **K Huang**, **LD Israelsen**, **DL Snyder**, **P Swensen**. Enrolled in PhD—Economics.

Ortiz, Marcia Cecilia. The dynamic economics effects of soil erosion on agricultural productivity: the case of Ecuador. Directed by **HH Fullerton** with **AA Batabyal**, **B Biswas**, **TF Glover**, **R Allen**. Candidate for PhD—Economics.

Osell, Shawn. Dissertation topic undeclared. Directed by **C Fawson** with **B Biswas**, **DL Dickinson**, **K Huang**, **LD Israelsen**. Enrolled in PhD—Economics.

Phiri, Phillip. "Perverse supply" as a rational behavior of smallholder livestock farmers in Central Malawi, and implications for livestock policy decisions. Directed by **BE Norton** with **B Biswas**, **RE Banner**, **NLH McCoy**, **J Cangelosi**. PhD—Range Science, 2001.

Rirermsoonthorn, Kanchana. Dissertation topic undeclared. Directed by **C Fawson** with **DM Aadland**, **B Biswas**, **KR Criddle**, **K Huang**, **P Swensen**. Enrolled in PhD—Economics.

Rujirawat, Pataranut. Dissertation topic undeclared. Directed by **DM Aadland** and **K Huang** with **B Biswas**, **LD Israelsen**. Enrolled in PhD—Economics.

Said, Ahmed. Stream contaminant modeling of the big lost river watershed. Directed by **D. Stevens** with **TF Glover**, **G. Merkley**, and **D. Tarbonton**. Candidate for PhD—BIE-CEE.

Thaneepanichskul, Suchada. Dissertation topic undeclared. Directed by **K Huang** with **DM Aadland**, **B Biswas**, **C Fawson**, **D Dahl**. Enrolled in PhD—Economics.

Wang, Fei. Dissertation topic undeclared. Directed by **TF Glover** with **DM Aadland**, **K Huang**, **KS Lyon**, **P Swensen**. Enrolled in PhD—Economics.

Xu, Qing. Three essays in environmental and natural resource economics. Directed by **AA Batabyal** with **B Biswas**, **TF Glover**, **KS Lyon**, **R Lilieholm**. PhD—Economics, 2000.

Zhou, Lei. Dissertation topic undeclared. Directed by **C Fawson** and **B Biswas**, with **DM Aadland**, **K Huang**, **P Swensen**. Enrolled in PhD—Economics.

Fujisaki, Ikuko. Socioeconomic assessment of snowbiling in Utah. Directed by **D. Blahna** with **JE Keith**, **NH McCoy**. MS—Forestry, 2001.

Furness, Anna. A further analysis of pool size versus precision of prohibited species bycatch estimates for pooled and individual bycatch quotas. Directed by **J Koebbe**, with **A Cutler**, and **KR Criddle**. Candidate for MS—Applied Mathematics.

Garrett, Keith. Public policy. Directed by **R Herzberg** with **B Biswas**, **D Goetze**. MA—Political Science, 2001.

Hamel, Charles. Economic impact of marine recreational fisheries on the Kenai Peninsula borough. Directed by **M Herrmann**, with **JA Greenberg** and **KR Criddle**. Candidate for MS—Resource Economics, University of Alaska Fairbanks.

Hemingway, Ryan. Plan C. Directed by **C Fawson** with **LD Israelsen**, **G Chandler**. Candidate for MSS—Economics.

Jensen, Landon. Pool size versus precision of prohibited species bycatch estimates for pooled and individual bycatch quotas. Directed by **J Koebbe**, with **A Cutler**, **KR Criddle**. MS—Applied Mathematics, 2000.

Johnson, Rachael. Increasing nitrogen effectiveness of commercial dairy using milk urea nitrogen values. Directed by A Young with **EB Godfrey**, R Boman, and H. Bingham. Candidate for MS—Animal Science.

Kelly, Kevin. Control of proso millet. Directed by J Evans with **EB Godfrey**, S Dewey. Candidate for MS—Plant Science.

Libii, Eliezer. Plan C. Directed by **HH Fullerton** with **C Fawson**, R Schaaf. MS—Economics, 2001.

Liddell, Sterling. Plan B. Directed by **D Bailey** with **RA Ward**, E Stafford. International MBA—Food and Agribusiness, 2000.

Misra, Sanjeev. Returns to public agricultural research expenditure under uncertainty. Directed by **C Fawson** with **B Biswas**, **DL Snyder**. MS—Economics, 2001.

Mohapatra, Sandeep. The dynamic linkages of food aid, trade, and production: Three essays. Directed by **D Snyder** with **LD Israelsen**, **B Biswas**, **C Fawson**. MS—Economics, 2000.

Mortenson, Kristian. Thesis topic undeclared. Directed by **C Fawson**. Enrolled in MA—Applied Economics.

Palmer, Katrina. Biological and economic aspects of creep feeding and winning strategies in a cow/calf production system using improved irrigation systems. Directed by R Wiedmeier with **EB Godfrey**, K Olson. Candidate for MS—Animal Science.

Puripunpinyoo, Anucha. Plan C. Directed by **C Fawson** with **LD Israelsen**, **HH Fullerton**. Candidate for MS—Economics.

Sainsbury, Louise. Intensification in a risky environment: A case of improving private grazing land for beef production in Utah. Directed by DL Coppock with **DL Snyder**, J Workman. Candidate for MS—Rangeland Resources.

Singh, Prashant. Plan C. Directed by JJ Johnson with **B Biswas**, TSE Hilton. Candidate for MS—BISE.

Spratling, Blake. Biological and economic efficiencies of beef production systems using low quality forages and improved pastures. Directed by R Weidmeier with **EB Godfrey**, K Olson. Candidate for MS—Animal Science.

Supanakorn, Supawan. Plan B paper title undeclared. Directed by **C Fawson** with **TJ Bowles**, **LD Israelsen**. Enrolled in MA—Economics.

Tang, Yan-Hui. Thesis topic undeclared. Directed by **C Fawson**. Enrolled in MS—Agricultural Economics.

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Ward, April. Thesis topic undeclared. Directed by J Webster with **EB Godfrey**, G Straquadine. Enrolled in MS—ASTE.

Wu, Rong-Rong. Thesis topic undeclared. Directed by **C Fawson**. Enrolled in MA—International Economics.

Yang, Jing. Plan C. Directed by D Paper with **B Biswas**, JJ Johnson. Candidate for MS—BISE.

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